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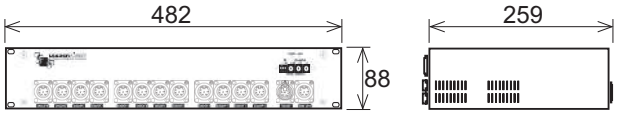
USER MANUAL

LL PRO LED Z-POWER DRIVER 36

LL42 600

COMPLIMENTS ON YOUR PURCHASE!

All dimensions are in milimeters



Following items are included:

- LL PRO LED DRIVER 36	1 pc.
- Power plug PowerCon “A“ and “B“	1 pc.
- User manual	1 pc.

Additional items needed:

- Control cable

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ENVIRONMENT

Do not throw away the appliance with the normal household waste at the end of its life, but hand it in at an official collection point for recycling. By doing this, you help to preserve the environment.

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01 SAFETY INFORMATION

WARNING!!!
Carefully read before installing, powering or servicing.
Nothing to do if anything misunderstand!
Only for professional use!

01.1 Protection from electric shock

- Shut down power before installation or maintenance.
- Driver and power supply must be installed by a qualified professional in accordance with relevant local codes.
  Only acceptable source of AC power and frequency that complies with local buidling and electrical codes to use.
- Do not use or do not connect the products if the power cable, power plug or driver are any way damaged, wet, or if they are overheating.
- Do not modify, alter, or attempt to service the LeaderLight appliance.
  Doing so will void the warranty.
- Before removing or installing any cover or part of appliance disconnect it from AC power.
- Appliance allways connect to earth (eltech.).

01.3 Fire prevention

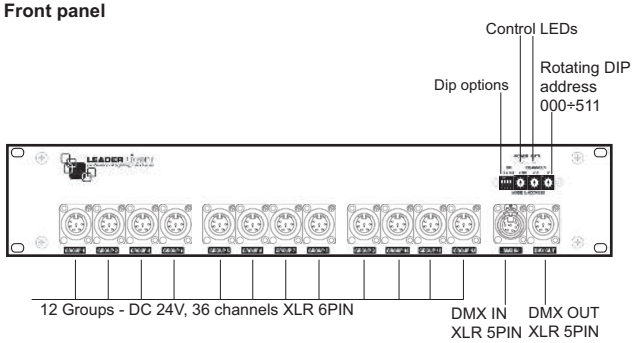
- Follow all safety consideration.
- Thermostatic switches or fuses never to bypass.
- Device never shield – minimum distance around ventilating slot must be 100mm (4 in.).
- Allowing max. ambient temperature is 40°C (104°F).

02 PRODUCT SPECIFICATION

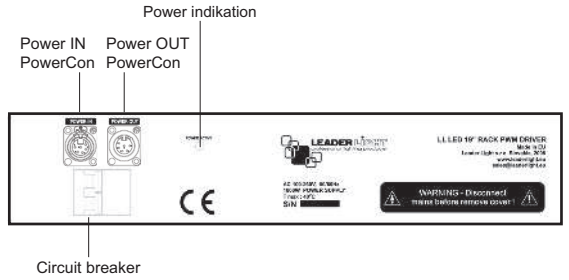
02.1 Technical Specification

Power connection:	100-260V AC, 50-60Hz In/Out PowerCon
Power output:	DC 24V, 36xOut (12 x RGB / 9 x RGBW / 7 x RGBAW) with 12x6pin XLR connector max. 40A
Control data connection:	DMX512 In/Out with 5pin XLR
Net weight:	3,5kg
Dimensions LxWxH:	482mm x 259mm x 88mm 19“ 2U
Ambient temp.(Ta):	-10°C ~ +40°C except outdoor box with cooling and heating module
Installation:	19“ 2U installation

02.2 Front panel


Control LEDs
Rotating DIP address 000÷511
Dip options
12 Groups - DC 24V, 36 channels XLR 6PIN
DMX IN XLR 5PIN
DMX OUT XLR 5PIN

02.3 Back panel



Control LEDs Indication

POWER ● ● DATA

LED	INDICATION	STATUS
POWER (Red)	blinking – 2Hz	OK - inside fixture is everything correct
DATA (Green)	light off	NO DMX512 signal
DATA (Green)	blinking – 4Hz	OK- income correct DMX512 signal
DATA (Green)	fast blinking	NON correct digital signal
POWER (Red)	alternate blinking	Autotest function
DATA (Green)		

03 INSTALLATION

03.1 Unpacking

- Unpack carefully.
- This is electronic equipment and should be handled carefully.
- Damaged delivered package or if are any mechanical parts broken – it must be claim immediately by the transport company.
  Photo pictures as evidence are valuable for future claim.

03.2 Physical installation

- Loading capacity of bearing area has to be at least 10 times the weight of all device clusters (luminaries, clamps, cables, ...).

03.3 Connecting to AC power

- **To tackle all Safety Information- 01!**
- For protection from electric shock, the device must be grounded (earthed)!
- It is not necessary to open the driver before power supply.
  Power supply is sovled simple with Neutrik PowerCon connectors.
- The driver is equipped with auto-switching power supply that automatically adjusts to any 50-60 Hz AC power source from 100-260 Volts.

- Cord plug connections:

Symbol	Pin	Wire Colour	Screw (US)
L	live	brown	yellow or brass
N	neutral	blue	silver
⏚	ground (earth)	yellow/green	green

03.4 DMX channels

- Shut down power supply before installation of DRIVER to LED fixtures.
- Total current output of DRIVER is limited for maximum 40A!

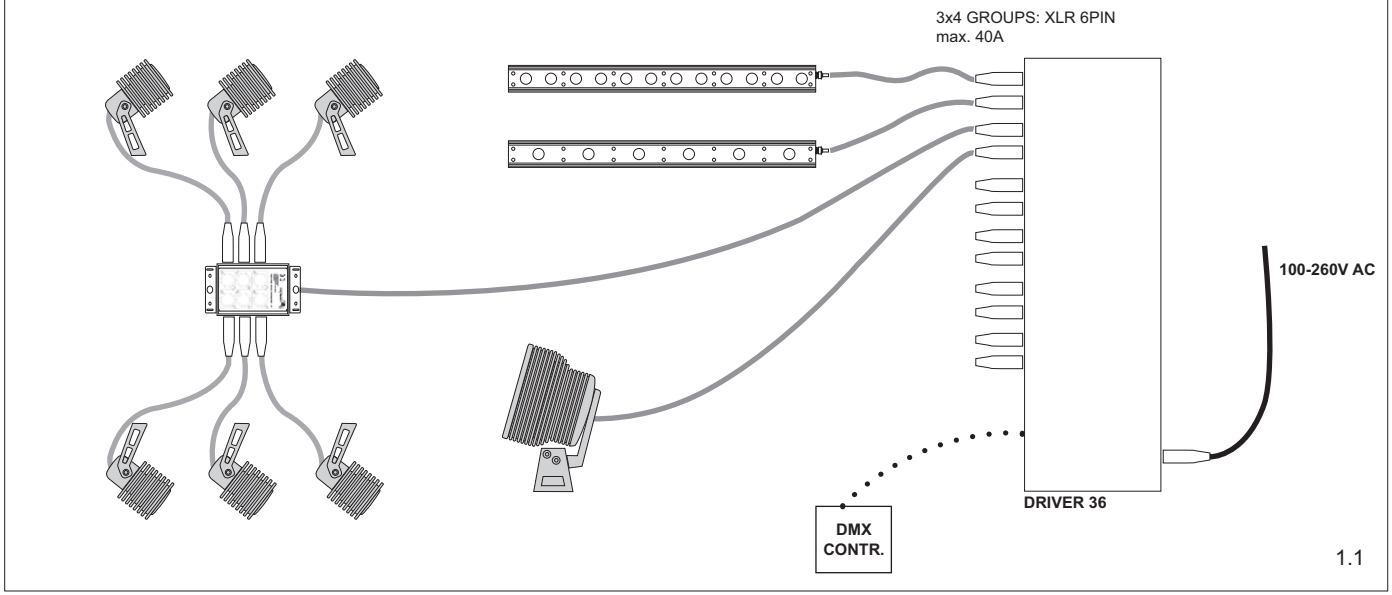
Mode 1: **DIP2=Off** and **DIP3=Off**		**Mode 2**: **DIP2=Off** and **DIP3=On**	
channel 1,13,25 =	Red 1	channel 1,13,25 =	Red 1
channel 2,14,26 =	Green 1	channel 2,14,26 =	Green 1
channel 3,15,27 =	Blue 1	channel 3,15,27 =	Blue 1
channel 4,16,28 =	Red 2	channel 4,16,28 =	White 1
channel 5,17,29 =	Green 2	channel 5,17,29 =	Red 2
channel 6,18,30 =	Blue 2	channel 6,18,30 =	Green 2
channel 7,19,31 =	Red 3	channel 7,19,31 =	Blue 2
channel 8,20,32 =	Green 3	channel 8,20,32 =	White 2
channel 9,21,33 =	Blue 3	channel 9,21,33 =	Red 3
channel 10,22,34 =	Red 4	channel 10,22,34 =	Green 3
channel 11,23,35 =	Green 4	channel 11,23,35 =	Blue 3
channel 12,24,36 =	Blue 4	channel 12,24,36 =	White 3

Mode 3: **DIP2=Off** and **DIP3=On**		**Mode 4**: **DIP2=On** and **DIP3=On**	
channel 1,11,21 =	Red 1	channel 1,11,21 =	Red 1
channel 2,12,22 =	Green 1	channel 2,12,22 =	Green 1
channel 3,13,23 =	Blue 1	channel 3,13,23 =	Blue 1
channel 4,14,24 =	Amber 1	channel 4,14,24 =	White 1
channel 5,15,25 =	White 1	channel 5,15,25 =	Amber 1
channel 6,16,26 =	Red 2	channel 6,16,26 =	Red 2
channel 7,17,27 =	Green 2	channel 7,17,27 =	Green 2
channel 8,18,28 =	Blue 2	channel 8,18,28 =	Blue 2
channel 9,19,29 =	Amber 2	channel 9,19,29 =	White 2
channel 10,20,30 =	White 2	channel 10,20,30 =	Amber 2

Extention and control functions:

Dip4=Off, Dip1=Off =>DipBCD:	use rotating switch for DMX start address (RS1 - “100“, RS2- “10“, RS3- “1“) from 001 to 512
DipBCD=9xx:	AutoTest: fade-over
DipBCD=8xx:	AutoTest: al channels on 50%
Dip1=On:	switch Paralel mode
Dip4=On:	switch UltraSoft curve
Dip2=Off, Dip3=Off:	Mode 1 (36ch) 4xRGB
Dip2=Off, Dip3=On:	Mode 2 (36ch) 3xRGBW
Dip2=On, Dip3=Off:	Mode 3 (30ch) 2xRGBAW
Dip2=On, Dip3=On:	Mode 4 (30ch) 2xRGBWA

LL PRO LED DRIVER 36 connecting



1.1

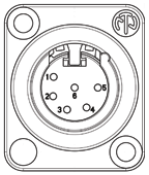
Connection conditions:

- Maximal current on DRIVER is 40A
- Maximal allowed current on each connector terminal is 1,4A
- Never use more fittings as maximal allowed amound
- LL PRO LED Z-POWER DRIVER 36 is calculated only for LL PRO LED products

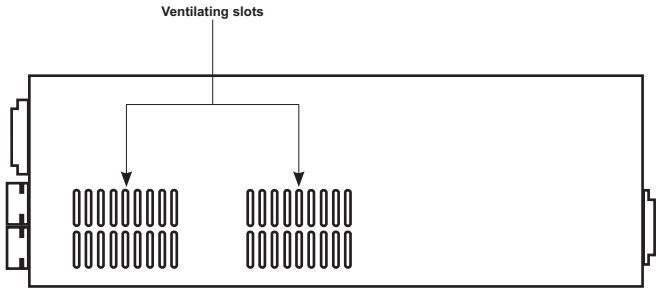
Amound of channels per LL PRO LED Z-POWER DRIVER 36:

3x4 Groups	RGB	36 channels
3x3 Groups	RGBW	36 channels
3x2 Groups	RGBAW	30 channels

or many another combinations



Pin connection to corresponding colour:
1 - R
2 - G
3 - B
4 - A (optional)
5 - W (optional)
6 - V+



Order code	Product name	Current
LL46 500	LL PRO LED POINT OneChip RGB with Splitter	3x0,35A
LL46 400	LL PRO LED SPOT OneChip RGB	3x0,7A
LL45 100	LL PRO LED LINE 50 OneChip 24 RGB IP65	3x1,4A
LL45 104	LL PRO LED LINE 50 OneChip 12 RGB IP65	3x0,7A
LL45 108	LL PRO LED LINE 50 OneChip 6 RGB IP65	3x0,35A
LL45 200	LL PRO LED LINE 100 OneChip 12 RGB IP65	3x0,7A
LL45 204	LL PRO LED LINE 100 OneChip 6 RGB IP65	3x0,35A
LL46 100	LL PRO LED LINE 50 OneChip 24 RGB	3x1,4A
LL46 104	LL PRO LED LINE 50 OneChip 12 RGB	3x0,7A
LL46 108	LL PRO LED LINE 50 OneChip 6RGB	3x0,35A
LL46 200	LL PRO LED LINE 100 OneChip 12 RGB	3x0,7A
LL46 204	LL PRO LED LINE 100 OneChip 6 RGB	3x0,35A

04 MAINTENANCE

- To tackle all Safety Information- 01!
- Damage caused by inadequate cleaning or maintenance is not coverd by warranty.
- Regular cleaning is demand (dust, dirt, ...).

Maintenance policy:
- Unplug mains befor maintenance and at least 10 minutes cool off.
- Use duster.
- Before reinstalling to check failure-free state – no wet parts!